

**U.S. Consumer Product Safety Commission
LOG OF MEETING**

SUBJECT: Meeting of ANSI Z21/83 Accredited Subcommittee for Gas-Fired Water Heaters

CPSC/OFFICE OF
THE SECRETARY
1999 OCT 14
ASII: 0

DATE OF MEETING: October 5-6, 1999

LOG ENTRY SOURCE: Donald W. Switzer *DWS*

DATE OF LOG ENTRY: October 13, 1999

CPSA 6 (b)(1) Cleared

[Signature]
No (b)(1) Products identified
Excepted by _____
Firms Notified, _____
Comments Processed.

LOCATION: Holiday Inn, Independence, Ohio

CPSC ATTENDEE(S): Donald W. Switzer

NON-CPSC ATTENDEE(S): Roster attached

SUMMARY OF MEETING: The Z21/83 Subcommittee on Water Heaters consists of experts in the area of water heater manufacture, fuel gas distribution, and others. It meets on a regular basis to discuss and adopt necessary changes to the various Z21/83 water heater standards. A large number of items were on the agenda for this meeting. This meeting log is limited to those items affecting on-going CPSC projects.

Item 4 STATUS OF PROPOSED REVISIONS TO THE Z21.10.1 WATER HEATER STANDARD - The primary issue of this item is the test method for flammable

[checkmark]

vapor igniton resistance (FVIR). The National Propane Gas Association (NPGA) has appealed action of the Z21/83 Committee in passing the FVIR requirements. There was some concern expressed by some of the water heater manufacturers that there is confusion in what constitutes passing the test, i.e. continue the testing for a specified period of time, or until the vapor concentration is below the lower flammability limit (LFL). CPSC staff said that its position is that the test must continue as long as there is a flammable vapor concentration in the test chamber. Staff from CSA International, the certifying agency, later assured those present that they will insist the testing continue until the vapor concentration falls below the LFL.

Item 5 APPOINTMENT OF REPRESENTATIVES TO THE Z21/83 COMMITTEE WORKING GROUP ADDRESSING FLAME ROLLOUT ON ALL APPLIANCES- The Z21/83 Committee established a working group to address flame rollout on all appliances after an incident with a boiler where the flame rollout protection means did not protect against CO poisoning. Staff requested to be a corresponding member of the working group because of the on-going project on CO poisoning from gas-fired furnaces.

Item 8 REPORT FROM WORKING GROUP ESTABLISHED TO CONSIDER REVISIING THE POOL HEATER STANDARD TO SPECIFY A LIMIT RATED DEVICE FOR THE REDUNDANT THERMOSTAT SPECIFIED IN PROPOSED 1.17.5 - The current pool heater standard allows a maximum water temperature of 140 F to enter the pool. The working group has proposed a revision that would limit the water temperature to 135 F entering the pool, which has the effect of limiting the pool temperature to less than 122F. The subcommittee adopted the proposal for review and comment. Staff will examine the appropriateness of the new temperature during the review and comment period.

Item 12 REPORT FROM THE TECHNICAL COMMITTEE OF THE GAMA WATER HEATER DIVISION ON ADDING COVERAGE FOR ALTERNATIVE VENTING - The Technical Working group requested that the subcommittee adopt new coverage to address use of alternate venting materials on gas-fired water heaters. At present the "usual" venting material is rigid vent pipe. However, direct vent appliances are gaining popularity and often use corrugated flexible venting. The working group proposed and the subcommittee adopted for review and comment new performance requirements to cover these types of installations.

Item 20 REQUEST TO REVISE THE MARKING REQUIREMENTS FOR WATER HEATER SHIPPING CONTAINERS - Water heaters that are installed in mobile homes in closets that are sealed from the living quarters are required to be direct vent appliances to insure proper venting and supply of combustion air to prevent carbon monoxide production. Direct vent water heaters are significantly more expensive than natural draft water heaters. NPGA requested that the shipping containers of natural draft water heaters be marked "Not for Use in Mobile (Manufactured) Homes". The subcommittee agreed to the concept of the

proposal and requested that the Gamma Technical Committee of the Water Heater Division develop appropriate wording.

**Z21/(Interim CSA) JOINT SUBCOMMITTEE ON STANDARDS FOR
GAS-FIRED WATER HEATERS**

SCOPE: Preparation of standards for self-contained gas appliances or appurtences
for domestic or commercial hot water supply.

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